Schultes & C.

Sec Desfontainia.

BOLIVARIANO

52 HOJAS

TABLA DE MULTIPLICAR

2 × 1 = 2	3 × 1 = 3	4 × 1 = 4	5 × 1 = 5
2 × 2 = 4	3 × 2 = 6	4 × 2 = 8	5 × 2 = 10
2 × 3 = 6	3 × 3 = 9	4 × 3 = 12	5 × 3 = 15
2 × 4 = 8	3 × 4 = 12	4 × 4 = 16	5 × 4 = 20
2 × 5 = 10	3 × 5 = 15	4 × 5 = 20	5 × 5 = 25
2 × 6 = 12	3 × 6 = 18	4 × 6 = 24	5 × 6 = 30
2 × 7 = 14	3 × 7 = 21	4 × 7 = 28	5 × 7 = 35
2 × 8 = 16	3 × 8 = 24	4 × 8 = 32	5 × 8 = 40
2 × 9 = 18	3 × 9 = 27	4 × 9 = 36	5 × 9 = 45

6 × 1 = 6	7 × 1 = 7	8 × 1 = 8	9 × 1 = 9
6 × 2 = 12	7 × 2 = 14	8 × 2 = 16	9 × 2 = 18
6 × 3 = 18	7 × 3 = 21	8 × 3 = 24	9 × 3 = 27
6 × 4 = 24	7 × 4 = 28	8 × 4 = 32	9 × 4 = 36
6 × 5 = 30	7 × 5 = 35	8 × 5 = 40	9 × 5 = 45
6 × 6 = 36	7 × 6 = 42	8 × 6 = 48	9 × 6 = 54
6 × 7 = 42	7 × 7 = 49	8 × 7 = 56	9 × 7 = 63
6 × 8 = 48	7 × 8 = 56	8 × 8 = 64	9 × 8 = 72
6 × 9 = 54	7 × 9 = 63	8 × 9 = 72	9 × 9 = 81

HORARIO

HORAS	LUNES	MARTES	MIERCOLES	JUEVES	VIERNES	SABADO

COLEGIO _____

CUADERNO DE: _____

PERTENECE A _____

Pagamea macrophylla Spr.

S. & C. 17581 Sept. 18, 1952 Purapuraná, Caño Paca.

P. coriacea Spr. ex Benth.

S. & C. 12467 June 13, 1951 Rd. Terejerino

" 14953 Jan. 21, 1952 " "

" 15931 March 15, 1952 " "

RES 12108 March 1951 " "

S & C 19169 Apr. 15-16, 1953 R. Karuriá, Mun. de Yambí, Savannah Goo-ran-koo-da

Isertia hypoleuca Bth.

RES 6540 Sept 20, 1945 Letricia

Soejarto 574 Sept 7, 1963 Leticia

Raffauf 110 August 1964 Leticia-Tarapaca Rd, km. 4.

Isertia rosea Spr.

S. & C 13148 July 25, 1951 Rio Hananaú, Cachoeira Paleto

Romero-Castañeda 3430, Nov. 13/1952 Villa Fatima

HGB 14412 Sept. 3-11, 1952 Rd. Terejerino

Hg. B 14341 " " " " "

See Ann. Mo Bot Gard 41:2 (1954) p. 240.

Tachigalia cavipes (Spr. ex Bth.) Macbr.

S&C. 17137 1/9/52 Rio Parapanamá. Middle course

HG.B., RES + H. Bleehm 16061 June 30/1958 Rio Kubiyú, Guranjudá Sabana de

HGB 14286 Aug. 28-31, 1952 Rio Piraparana. Loma Buc-chia. Alt. 250-600 m.

HgB 13779 Nov. 29-30, 1951 Rio Kananarí y Cerro Seibukuri. 250 m. - 700 m.

Socjarto + T.E. Lockwood 2430 March 26, 1970. Rio Vaupés, below mouth Rio Kubiyú.

Perez Arbelaez + Cuatr 6738 12-18-39 Mitú. Alt. 200 m.

Tachigalia paniculata Aubl. var. comosa Dwyer

RES + G.B 8360 Sept. 1946 Loretoyacu River.

RES 8266 Sept. 1946 " "

HG.B 14418 Sept 3-11, 1952 Jinogoje.

Tachigalia ptychophysca Spr.

RES & IC 12955 July 7, 1951 Tirijirimo + vicinity

Cassia spruceana Hoffm.

RES 3649 2-5 abril 1942 Rio S. Miguel o Sucumbrosa Conejo y alrededores.

Adenera bicapsularis (L.) Britt. & Rose

RES 7170 March 1946 Loretoyacu. Large bush. Fl. yellow.

Chamaesenna reticulata (Colla.) Pittier

RES + IC 13971 8 Sept 1951 Mitu Tukano o-reé'
" Bush. Fl. yell. Cult.

RES 3807 22-28 mayo 1942. Rio Kanaparaná, entre las bocas y. El Encanto. ± 150 m.

J. Gut. & RES 950 8 March 1944 Mitu.

Euceraea nitida Mart.

RES & IC. 15035 Jan 23-25, 1952 Cerro Daibukuri, near summit, R. Kananarí
" " 15039 " " "

Guatteria procera (P et E) Eichl.

RES & IC 17018 25/8/52 Juniogjé Scandent bush. Flowers pink, fleshy. Maku = yaw'tee.

Ryania angustifolia (Turcz.) Monachino

Gut. & RES 560 Jan 9/44 La Jerusa, alto Vaupes. Kubeo crujeric

RES & IC. 15491 Feb 18/52 Rd. Yayacopi.

Ryania pyrifera (L. C. Rich.) Uitten et Steumer

RES 5360 apr. 10-17, 1943 Forest between Apaporé & Vaupes R.; path from Pto Naré to Victoria.

Tetrathylacium macrophyllum P. et E.

RES 3673 April 20-23, 1942 Rio Putumeyo, trocha entre Pto Ospina y Concepcion. Bush. 8 ft.

Schoenobblus peruvianus Standl.

RES + GB 8418 Oct 1946. Río Lorehoyacu

Combretum latum Jacqu.

RES + IC 13079 July 18, 1951 Mouth of Pacva. Vine

RES 3924 June 4-10, 1942 Río Igarapé-paraná, La

RES + Ic 13979 Sept 15, 1951 Chorerra Soratama Vine. R. white, very fragrant & narcissus. Puinave = der-gaw; Kurripako = tee-ge-pee; Tukano = o-see'; Kubeo = he-he-ve-mon'. Yourtuha.

RES + I C 13588 Aug 16, 1951 Soratama. Vine. H. fragrant, white.

Combretum rotundifolium Rich

RES 3984 June 15-17, 1942 Río Igarapé-paraná, entre Puerto Nenefe + Río Putumayo

See C. Llewelynii Macbride emend Duggand Dec. 1937 See Bot Mus Leafl. 16 (1953) 88

RES + IC 12839 June 26, 1951. Soratama.

RES 6196A Sept-Nov. 1944 Leticia.

Eperua purpurea + E. leucantha Cowan in Smithsonian Contrib Bot. #28 (1975).

See

Quararibea leptandra Cuatr.

RES. + M.V. 7382 Río Calima, Quebrada de La Brea alt. 30-40 m. May 19, 1946.

Patinoa ichthyotoxica

Plowman 3200 May 7, 1972 Mouth of Río Hacheteyaca, 600 m. Tree 10 m. tall in pasture with horizontal branches. Calyx tube light green. Petals fleshy, pale green with yellowish lateral rib, reddish at mouth of calyx tube. Filaments + pistil yellowish. Fr. subglobose, brown, 16 cm. long.

Anthodiscus peruanus Baill. Prance det A. amazonicus Gleason + Smith

RES + FL. 9387 Dec. 13-17, 1947. Confl. Río Guainía + Casiquiare, Caño Ducurapa (Iguana Rana) Colombia. In caatinga.

Anthodiscus obovatus Benth.

S. + H. 9226. Nov. 29 - Dec 7, 1947. Brazil, Río Xié, upper Río Negro, Cachoeira Cumati. Small tree.

Anthodiscus pilosus Ducke

S. + C. 13561 Aug 14, 1951 Soratama. Large tree. H. buds yellow. On bank

Caryocar glabrum (Aubl.) Pers.

S & C 13600 Aug 20, 1951. Soratama Puwani = No'-shou. Large tree, 75 ft. Stamens red, petals yellow.

C. glabrum

S. + C. 14999 Jan 28, 1952. Ruido of fruit [redacted] use as food poison. Fr. light brown. Seed eaten

by natives. Wood very hard.
Barasenare ë-hó. Kubeo = kön.
Seeds macerated & used by Indians

C. glabrum

S. + C. 13600 Aug 20, 1951 Puinave hó-shoo Entre el Rio Pacoa + Rio Kanaparí. Soratama.

C. glabrum

S. + C. 14139 Sept 26, 1951 Soratama. Puinave haw. Guamuno tree. Fl. yellow, stamens red. Seeds uncooked used as food.

C. gracile Witt

S. + C. 14688. 29/9/51. Rio Kanaparí, Cerro Iebükuri. Tree 90 ft. tall. Bark light brown. Flowers very fragrant, spicy, pink. Crown large. Puinave = hó'-pok-shoo.

C. gracile

HPB 13775 Nov. 29-30, 1951 Rio K. y Cerro Iebükuri. Alt. 250 m. Arbol 20 m., flores rosadas.

Quiina amazonica A. C. Sm.

S 6676. Oct 1945 Loretoyacu River.

Souroubea crassipetala Roem

S. + J. 16912 Aug 18, 1932. Rd. Yayacopi.

Caryocar microcarpium Ducke

Allen 3183 26 Nov. 1943 Headwaters of Rio Cuduyari Tree 25-30 m. Stamens pink. Species fruits used as barbasco for catching fish + Kubeo cun-cuj.

C. macrocarpum Ducke

Djapa Sapito + T.E. Lochhead 2354 Mar. 22, 1970.
Flower reaches g. R. Kuduyari.
"... fruits used as fish poison. After 3-4 days the fleshy mid is mixed with meal + thrown in the river "Ku"

C. microcarpum

Allen 3112 28 Aug. 1943. Tree 15 m. Flowers rose pink. Spiny fronts used as a barbecue for catching fish. Vic. Montfort, Rio Papuri

C. microcarpum

Gut. + RES 828 Feb 18/44 Alto Vaupes, entre Mesoplores + Maré

Manilkara bidentata (a DC) Chev.

A. Fern. 1900 Jan 23, 1955. Com. Vaupes, Residencia alto Cauabi. "Arbol 20 m. Latex abundante. Masarandua chicle.

M. amazonica Huber

HGB 13776 Nov. 29-30, 1951. "Balata" Arbol 30 m. Flores carmeletas Vaupes, Rio Kananari, Cerro Dzubikuri.

M. mundata (Ducke) Monachinis Masarandubo Hanaa.

RES. 6860 Nov. 1945 Tree 70 ft, diam 15 in. Latex white wood used to smoke rubber. Boiaçassu R.

See Mem. N Y Bot Gard. 20 (1) 1969
97
for several collections cited from
Loretospaera (Drâg) with Tikuna names
S. Erichsonii

M. Spruceí Gelm

S. 5726 Jan 1944. R. Vaupes, near Miraflores. "Balata blanca". Huge forest tree.

M. Spruceí

Cuatr. 7082 29-IX-39 aff. R. Apaporis, Selva del Popore. Gran arbol. Corteza usada "Baleta".

Lozan.

Potalia amara Aubl.

S. + C. 13972 E. Sept 1951 Mitú H. yellow.

S + C. 13726 Aug 27, 1951 Soratama Shrub 2m. tall. Flowers yellowish green. Leaves pale green beneath, dark green above. Puenavé = chiri-wee. Flood forest.

Cuatr 6852. 16-IX-39 Mitu. "Mastiguaja"

PERU

Jose Schunke V. 3610 Nov. 10, 69 Curarina-sacha Dept. Loreto, Prov. Mariscal Caceres, Tocache Nuevo. "Los nativos toman las hojas en infusión para picadura de víboras".

Stoyelinos cogens Bth

S. + B 8525 Iquitos. Oct 1946.

S. brachiata R. + P.

S. 3602 April 7-8, 1942. Sucumbios, Santa Rosa Kofan sĕ-hĕ-pa Vine Root used in arrow poison.

See Mem NY Botanical → 12 (1965) 40

Strychnos Brechsonii Rich. Schomb.

S.+C. 16770 June 20, 1952. Jinogoje Makuma = wa-oo'-nee-ma-ma.

17021 25/8/52 Jinogoje Nikú = Koo-ee-ĕt'

15653 Feb 25/52 Río Pajegará Vine. Fr. orange.

S. 3524 Apr 2-5/42 Succumbió, Conejo Kofan si-no'-chee. Said to be strongest from 35-23 for curare. Bot Mus Leafl. 13 (1949) 290.

S+C. 12644 Soratama June 18, 1951 Vine. Fr. yellow. Flood bank.

HGB 14580 Oct 1-4, 1952. La Pedrera Karijona e-re-gué.

HGB 14222 22-24, 1952 Aug. "Cuti' (Makuma) Desano Uaiana-jú. Below Puraporeá

S.+C. 16883 Aug 17, 1952 Jinogoje.

S. guianensis (Aubl.) Mart.

Idrobo 2633 July 30, 1957. Río Put., Nueve Granada Sionas = ya-hi-ae-o "Bracatinga de la raiz tiene resina roja que se utiliza para envenenar de flechas.

S. jobertiana Baill.

Pinkley 431 9-6-66 Kofan viru-chi sé-hé pa San Antonio, Guamuez. "Resp bark + bark. Curare.

432 same data + data bitbamu = Kitsi pa-cho-séhe-pa

See Phytologia 22 (1971) 229
Lloydia 35 (1972) 269

S. Tobestiana

S. 3523 2-5 April 1942 Sucumbios, Conejo. ir-ro-chee Barbasco used in curare.

S. Javariensis Krukoff

S. + B. 8401 Oct 1946. Loretoyacu

S. Mitscherlichii Rich. Schomb. var. pubescentior Sandw.

S. + C. 14404 Oct 5-6, 1951 Kulunyari, Cerro Yapobota

S. Mitscherlichii

Idrobo 2628 July 29/57 R. Putumayo, Nueva Granada

Sione pux-se-o = veneno caimen
que-he-ae-o = bejuco corresponso

also Idrobo 2632 July 29, 57

"Se raspa, se separa la corteza, se reune con otros varios bejucos y se cocina en largo proceso para preparar el veneno. Mata todo animal, pero no asciende en la preparacion"

S. Mitscherlichii

S. + B. 8388 Sept. 1946. Loretoyacu.

S. panurensis Spr. & Sandw.

S. + B. 8447. Oct. 1946. Tikuna. orig-we. Loretoyacu

S. + C. 13084 July 18, 1951. Mouth y Pacoa.

S & C. 12840. June ~~July~~ 24 1951 Soretama

For S. Schulteriana Krukoff
See Mem NYBG Jard. 12 (1965) 78.

Strychnos Peckii B. & R. Robinson

S+L 9491 Dec 27/47 Vaupes, R. Negro vic. Piedra del Coeuy.

S. 12100 III-51 Apyposis, new mouth Kanamari "Chief impediment in curare made by Karaparana Indians of R. Kanamari"

S rondeletioides Spr. ex Bth.

S. 24248. Mitu.

~~S 24187~~ — Mitu

S. 2C ~~18416~~ 13/11/52 Near Mitu

18423 " " "

~~18408~~ " " "

S — 24258

~~S 3829~~ May 22-28, 1942. Rio Karaparaná, El Encanto. Bush. Fr. blue-black a orange-red.

—> Incplete 13 (1949) 292

~~S 24166~~ Mitu.

S. Solerederi Gilg

Soeparto ~~DH~~ 595 Sept 7, 1963. Leticia

HG.B 14522 Via Pedrera Cerro Cupati Sept 30, 1952. apa-canjiin (Yukuna)

Desfontainia spinosa R. & P.

S. & C. E Sm. 3127 Paramo de Tambillo hordeste del Valle de Sibundoy 2700-2800 m. Dec. 13-14, 1942.

det Mube 1968

D. spinosa &

Earl 6. Core. 1652 Nov. 22, 1944. In paramo near abelina Shrubs 4–5 ft. high. Hvs. firm, rigid, prickly. Flowers red tinged with yellow at tip. " Valle del Cauca.

D. spinosa var parvifolia (A. DC) Hook

Otto Haschek S.N. Feb. 1971. Cundinamarca, Fómeque, Paramo de Chingaza.

J.M. Idrobo & H.G. Barclay #090 16-X-58 Cauca, Macizo Colombiano. Paramo de las Papas. El Bosquecon y alrededores de la Laguna La Magdalena 3500 m.

Erect, gray, woody. Shrubs by recurved hooks on lobes of leaves. Top dark green, shiny above lighter below. Flowers pendulous. Pedicels dark brown; calyx green; corolla tube red, lobes yellow tinged with red, lighter yellow inside. Flowers deep. In rastrojo between Espeletia tuns patches. Frequent.

D. spinosa

Cuatr. 11814 Put. Lag. de la Cocha., Pasbanda Santa Lucia. Bosque 2850 m. 8 Jan. 1941.

D. spinosa parvifolia

Cuatr. 9216 4 mayo 1940 Dpt. Caldas. Cord. Central, vertiente occidental. Vert sudoeste del Ruiz, Termales. 3400 m.

Tabulosa amarilla. Cund. Caruja, Boqueron
en la Peña de Sumangá.

D. spinosa var. parvifolia

Huertas y Camargo 6444 Jan 20-30, 1966.
Cundinamarca. Fonegue, Paramo de Chingaza. Ladera hacia los Frailones de Guasalá. 3000-3200 m.

D. spinosa

Sogarita 979 July 17, 1964 Nariño, Mpio Pasto. Bosque Batán 2800-3200 m
Shrub 2m tall. Sepals pale yellow, tinted purple, petals narrow outside tinted red, at apex yellow. Rare. In groups.

D. spinosa

Triana 3875 Provincia de Popayán, Paramo de Almaguer. alt. 2700. Jan 1853.

D. spinosa

Sigfredo Espinel T. 966 March 1, 1963 Arbol pequeño. Flores rojas
Laguna de la Cocha. 2900-3000 m.

D. spinosa

H. Humberto, V. Idrobo et al. 28 Oct 26941. Cund.
Route de Fusagasuga, entre San Miguel et la aguadita
2000-2700 m.

D. spinosa var. parvifolia

Ulloa-L. 5923 Aug 4/67 Pequeño arbusto de
porte delicado, muy difuso. Flores muy
ornamentales: tubo de la corola rojo y

Chelonanthus chelonoides (L. fil.) Gilg

RES 5614 July 24/43. Mt. Chiribiquete 4-5 ft. Fl. green yellow.

HGB + RES 14130 Dec 21/51 Rio Caquetá Araracuara. "Yerba erecta 1 m. Flores verde-amarillentas."

" " 14147 Dec. 21/51 Same loc.

Chelonanthus uliginosus (Gmelin) Gilg.

RES. 3928 4-10 June 1942. Rio Iq. La Chorrera.

RES + FL 9913 May 12-19, 1948. Pl. Brasil. Amazonas. Rio Negro, Cerro Dimitl. Fl. white. In sandy caatingas.

not used in paper →

Tachia guianensis Aubl.

RES + IC. 12476 13 June 1951 Jenipenio.

PHAHen 3084 Aug 11, 1943 Rio Macú Paraná, trib. of R. Papurí. Shrub or small tree, 3 m. Fl. yellow.

RES + IC. 19883 5/52 Jenipapo.

RES + IC. 14670 27/11/51 Jenipenio Bush. Fl. yellow.

RES 3876 31 May - 2 June 1942 Trocha entre El Encanto + La Chorrera. (Powdered leaves mixed with cocoa to make it bitter.)

EQUIVALENCIA DE PESOS Y MEDIDAS

LONGITUD

Cm.	—	0,3937	Pulgadas
Metro — 100 Cms.	—	39,37	Pulgadas
Metro	—	3,28	Pies
Metro —	—	1,0936	Yardas
Metro	—	1,25	Varas
Km. — 1.000 Ms.	—	0,62137	Millas
Pulgada	—	2,54	Cms.
Pie — 12 Pulgds.	—	30,48	Cms.
Yarda — 3 Pies	—	91,44	Cms.
Milla — 1.760 Yds.	—	1.609,35	Metros
Milla Náutica	—	1.852	Metros
Vara	—	80	Cms.
Cuadra — 100 Varas	—	80	Metros

SUPERFICIE

Cm^2	—	0,155	Pulg. Cuad.
M^2	—	10,764	Pies Cuads.
M^2	—	1,196	Yds. Cuads.
M^2	—	1,5625	Varas Cuads.
Hectárea - 10.000 Ms^2	—	2,4710	Acres
Hectáreas	—	1,5625	Plazas
Km^2	—	0,386	Milla Cuad.
Pulg. Cuad.	—	6,452	Cms^2
Pie Cuad.	—	0,0929	M^2
Yarda Cuad.	—	0,8361	M^2
Acre	—	0,4047	Hectárea
Milla Cuad.	—	2,59	Kms^2
Vara Cuad.	—	0,64	M^2
Plaza *	—	6.400	Ms^2

* También Cuadras

VOLUMEN

Cm^3	—	0,06102	Pulg. Cúbica
M^3 1.000.000 $Cms.^3$	—	35.3145	Pies Cúbicos
M^3	—	1,308	Yds. Cúbicas
Pulgada Cúbica	—	16,387	Cms^3
Pie Cúbico	—	0,0283	M^3
Yarda Cúbica	—	0.765	M^3

PESO

Gramo	—	15,432	Granos
Gramo	—	0, 03527	Onza
Kilogramo	—	2,2046	Lbs.
Tonelada Métrica 1000 Kgs.	—	2.204,6	Lbs.
Grano	—	0, 0648	Gramo
Onza Avoirdupois	—	28,35	Gramos
Libra - 16 Onzas	—	453,6	Gramos
Tonelada Amer. - 2.000 Lbs.	—	907,18	Kgs.
Tonelada Ingl. - 2.240 Lbs.	—	1.016,05	Kgs.
Onza Avoirdupois	—	437.5	Granos
Onza Troy	—	480	Granos
Arroba - 25 Lbs.	—	11,34	Kgs.
Quintal - 100 Lbs.	—	45,359	Kgs.

CAPACIDAD

Litro - 1.000 $Cms.^3$	—	0,264	Gal. Americano
Litro	—	0,220	Gal. Inglés
Litro	—	1,389	Botellas
Onza flúida		29,57	Cms^3
Galón Inglés 227.420 Pulgs. Cúb.		4,546	Lts.
Galón Americano 231 Pulgs. Cúb.		3,7853	Lts.
Botella - 720 Cms^3	—	0,72	Litro
Botella		25,36	Onzas Flúidas

TEMPERATURA

Grados Centígrados	(°F — 32) 5/9
Grados Fahrenheit	9/5 °C + 32
Grados Centígrados	5/4 Grados Reaumur
Grados Reaumur	4/5 °C